

Table of comparative maximum and minimum temperatures for the month of July.

State or Territory.	Station.	For 1885.		Since establishment of station.			
		Max.	Min.	Max.	Year.	Min.	Year.
Alabama	Montgomery	98.0	63.1	106.9	1881	60.8	1882
Do	Mobile	94.0	66.0	101.0	1883	63.8	1882
Arizona	Prescott	98.5	47.6	103.0	1878	42.0	1879
Do	Yuma			118.0	1878	61.0	1879
Arkansas	Little Rock	100.0	64.6	101.3	1884	61.0	1882
Do	Fort Smith	98.6	63.8	104.5	1884	61.0	1882
California	San Francisco	78.0	51.0	83.0	1881, 1884	49.0	1874, 1881
Do	San Diego	81.8	57.6	86.0	1877	53.7	1884
Colorado	Denver	97.3	50.3	102.3	1874	42.0	1873
Do	Pike's Peak	57.0	24.2	64.0	1879	18.0	1876
Connecticut	New Haven	93.5	50.3	95.0	1876	51.0	1873
Do	New London	92.4	53.0	93.0	1876, 1876	51.0	1879
Dakota	Fort Buford	96.0	45.7	104.0	1881	37.5	1884
Do	Yankton	100.7	47.8	103.0	1883	44.0	1877
Delaware	Cape Henlopen	98.0	54.5				
Do	Del. Breakwater			91.0	1880	59.0	1882
Dist. of Columbia	Washington City	99.1	54.1	102.0	1879	56.1	1884
Florida	Jacksonville	94.8	70.6	104.0	1879	68.0	1877, 1879
Do	Key West	93.5	73.3	97.0	1880	72.7	1883
Georgia	Atlanta	91.2	59.0	99.0	1880	53.0	1880
Do	Savannah	95.2	65.4	105.0	1879	66.0	1876
Idaho	Boise City	98.5	50.6	106.0	1877	41.0	1880
Do	Lewiston	99.3	53.1	104.8	1882	48.0	'80, '81, '82
Illinois	Chicago	93.9	52.6	99.0	1874	50.0	1873
Do	Cairo	95.8	62.1	99.0	1874, 1881	60.0	1883
Indiana	Indianapolis	94.5	47.5	101.0	1881	53.0	1882
Do	Greencastle	92.4	53.4				
Indian Territory	Fort Supply	96.0	60.0				
Do	Fort Sill	100.0	62.5	106.0	1881	56.0	1880
Iowa	Dubuque	97.1	51.5	101.0	1874	50.4	1882
Do	Keokuk	99.0	58.0	100.0	1871	56.0	'73, '80, '83
Kansas	Leavenworth	98.0	50.0	104.0	1874	53.5	1882
Do	Dodge City	97.3	56.6	108.0	1876	50.0	1877
Kentucky	Louisville	97.2	54.0	102.0	1874	57.0	1882
Louisiana	New Orleans	92.5	74.5	96.0	1877	69.8	1882
Do	Shreveport	99.7	69.2	107.0	1875	64.0	'77, '80, '82
Maine	Eastport	77.0	49.0	86.0	1873, 1880	45.0	1882, 1884
Do	Portland	86.8	53.7	97.0	1876	51.0	1876, 1882
Maryland	Baltimore	98.7	56.0	99.0	'76, '79, '80	59.0	1876, 1882
Massachusetts	Boston	92.8	51.4	101.0	1880	46.0	1874
Do	Springfield			94.5	1876	49.0	1876
Michigan	Marquette	88.8	46.4	100.0	1878	40.3	1883
Do	Detroit	89.5	54.4	100.0	1878	50.0	1872, 1883
Minnesota	Saint Vincent	91.1	39.2	92.5	1881	40.0	1881, 1883
Do	Saint Paul	94.7	35.0	100.0	1883	45.0	1873
Mississippi	Vicksburg	98.7	64.4	100.0	1878, 1881	62.0	1881
Missouri	Saint Louis	96.6	60.0	104.0	1881	57.0	1876
Montana	Fort Assinaboine	96.0	41.3	95.0	1882	35.0	1881
Do	Fort Custer	100.0	44.2	103.0	1881	42.0	1882
Nebraska	North Platte	97.6	48.0	107.0	1877	45.0	1877, 1882
Do	Omaha	97.8	55.2	105.0	1874	51.0	1873
Nevada	Winnemucca	92.4	42.0	104.0	1877	45.0	1877, 1878
Do	Pioche			98.0	1878	47.0	1880
New Hampshire	Mount Washington	69.4	35.5	72.0	1881	27.0	1882
New Jersey	Sandy Hook	92.7	58.4	100.0	1876	59.0	1880
Do	Cape May	88.5	61.0	91.0*	1874	56.0	1880
New Mexico	Santa Fe	88.5	53.0	95.5	1878	46.0	1872, 1880
New York	Buffalo	87.4	48.3	90.0	1878	47.5	1876
Do	New York City	95.9	46.2	99.0	1876	40.0	1873, 1882
North Carolina	Charlotte	95.0	56.1	101.0	1879	61.0	1881
Do	Smithville	89.9	60.2	100.0	1879	61.0	1882
Ohio	Cincinnati	96.6	53.0	103.5	1881	58.2	1883
Do	Cleveland	90.1	53.0	96.0	1878	49.6	1879
Oregon	Roseburg	100.8	40.3	97.0	1880	40.0	1875, 1880
Do	Portland	99.0	49.1	95.5	1875	46.0	1883
Pennsylvania	Erie	89.8	53.0	94.0	1878	52.0	1883
Do	Philadelphia	97.0	59.9	100.0	1876	56.0	1883
Rhode Island	Block Island	87.8	55.3	86.0	1881, 1882	55.0	1879
Do	Newport			92.0	1878	53.5	'76, '81, '82
South Carolina	Charleston	94.5	66.0	104.0	1879	67.0	1882
Tennessee	Nashville	96.1	57.8	101.2	1881	50.3	1882
Do	Knoxville	94.0	52.2	100.0	1879	53.0	1881
Texas	Fort Davis	96.7	58.4	110.0	1881	53.0	1880
Do	Galveston	91.5	75.0	97.0	1875	59.0	1880
Utah	Salt Lake City	99.7	53.8	98.0	1877	45.0	1880
Vermont	Burlington			96.0	1878	47.0	1875, 1876
Virginia	Lynchburg	97.0	54.4	101.8	1881	55.0	1876, 1882
Do	Norfolk	98.8	59.4	102.5	1876	60.0	1882
Washington Ter.	Olympia	97.0	43.5	93.5	1880	40.0	1882
Do	Dayton	102.6	40.6	102.0	1880	37.4	1881
West Virginia	Morgantown			97.0	1874	52.0	1873
Wisconsin	Milwaukee	92.8	51.7	95.0	'71, '74, '78	50.0	1875, 1876, 1880, 1883
Do	La Crosse	92.0	55.7	101.0	1874	52.0	1880, 1883
Wyoming	Cheyenne	88.2	48.5	100.5	1881	37.6	1882

FROSTS.

Frosts are reported to have occurred during July as follows:
 On the summit of Pike's Peak, Colorado, on the 25th and 28th.
 Braddock, Summit county, Colorado, from 1st to 9th, 11th, 12th, 14th, 15th, 17th, 18th, 20th, 22d, 23d, 25th.
 Boyne, Charlevoix county, Michigan, 10th.
 Dale Enterprise, Rockingham county, Virginia: light frosts were reported in the lowlands on the 1st and 2d.
 Fort Bridger, Wyoming: light frost occurred on the 15th; heavy frost on the 26th.

The La Crosse (Wisconsin) "Daily Republican," of July 3d, contained the following:

RICHMOND, VIRGINIA, July 3.—A dispatch from Wytheville, Virginia, states that heavy frosts prevailed in that section Tuesday night (June 30th-July 1st), and ice formed at Crockett's Depot, in Wythe county, yesterday morning. It is the first time in the recollection of anyone here that ice has been known to form in this state in the month of July.

PALMYRA, WISCONSIN, July 3.—A heavy white frost fell in this section on Tuesday night (June 30th-July 1st). It is feared the vineyards have suffered therefrom.

PRECIPITATION.

[Expressed in inches and hundredths.]

The distribution of rainfall over the United States and Canada for July, 1885, as determined from reports from more than eight hundred stations, is exhibited on chart iii.

In the following table are shown, for each of the geographical districts, the normal July precipitation for a series of years, the average for July, 1885, and the excess or deficiency as compared with the normal:

Average rainfall for July, 1885.

Districts.	Average for July. Signal-Service observations.		Comparison of July, 1885, with the average for several years.
	For several years.	For 1885.	
	Inches.	Inches.	Inches.
New England	4.42	2.21	-2.21
Middle Atlantic states	4.24	2.93	-1.31
South Atlantic states	5.72	4.63	-1.09
Florida peninsula	5.56	6.25	+0.69
Eastern Gulf states	4.88	5.06	+0.18
Western Gulf states	3.96	4.01	+0.05
Rio Grande valley	1.97	0.75	-1.22
Tennessee	4.02	4.73	+0.71
Ohio valley	4.51	1.90	-2.61
Lower lake region	3.60	3.27	-0.33
Upper lake region	3.50	2.92	-0.58
Extreme north west	3.22	3.21	-0.01
Upper Mississippi valley	4.14	4.05	-0.09
Missouri valley	4.10	4.09	-0.01
Northern slope	1.86	1.94	+0.08
Middle slope	3.40	3.25	-0.15
Southern slope	3.18	1.71	-1.47
Southern plateau	2.24	1.30	-0.94
Middle plateau	0.30	0.29	-0.01
Northern plateau	0.58	0.19	-0.39
North Pacific coast region	0.70	0.47	-0.23
Middle Pacific coast region	0.06	0.11	+0.05
South Pacific coast region	0.07	0.17	+0.10

The rainfall for the month has been decidedly below the average in the southern slope, Rio Grande and Ohio valleys, and on the Atlantic coast from South Carolina northward, the departures being most marked in the Ohio valley and New England. While the average for several districts, viz., the Gulf states, middle slope, and the upper Mississippi and Missouri valleys, nearly corresponds with the respective normals, the precipitation has been of very uneven distribution, there being marked departures, both above and below the average, in the same districts. At Montgomery, Alabama, the monthly precipitation, 7.54, exceeded the July average for the last twelve years by 3.89, while the records at Mobile, Alabama, and Pensacola, Florida, show deficiencies of 2.67 and 4.01 as compared with the normals for fourteen and five years, respectively. In the Missouri valley a deficiency of 2.17 occurs at Yankton, Dakota, and an excess of 3.29 at Leavenworth, Kansas, the records at these stations covering periods of twelve and fourteen years, respectively. In the upper Mississippi valley deficiencies of 2.27, 2.38 and 3.45 occur at Davenport and Keokuk, Iowa, and Cairo, Illinois, while at La Crosse, Wisconsin, Saint Paul, Minnesota, and Des Moines, Iowa, the monthly precipitation exceeded the average by 3.49, 2.66 and 2.55, respectively.

In the table of miscellaneous meteorological data are given the monthly precipitation, with the departures from the average, at the various Signal Service stations.

The following table shows the average July precipitation,

that for July, 1885, and the excess or deficiency, as reported from certain stations by voluntary observers:

Station.	County.	Average precipitation for July.	Number of years.	Precipitation for July 1885.	Departure.
		Inches.		Inches.	Inches.
Arkansas.					
Lead Hill	Boone	8.35	3	8.31	-0.04
Connecticut.					
Hartford	Hartford	4.47	13	5.53	+0.86
Dakota.					
Webster	Day	8.39	3	4.97	-3.42
Illinois.					
Anna	Union	3.95	10	2.19	-1.77
Riley	McHenry	4.04	24	2.07	-1.97
Collinsville	Madison	4.16		2.37	-1.79
Sycamore	De Kalb	6.44	4	4.98	-1.46
Sandwich	De Kalb	4.04	34	2.53	-1.51
Indiana.					
Logansport	Cass	4.28	26	4.00	-0.28
Vevay	Switzerland	4.15	21	2.46	-1.69
Spiceland	Henry	4.32	27	1.83	-2.49
Mauzy	Bush	2.89	4	1.56	-1.33
Kansas.					
Wellington	Sumner	4.02	7	4.94	+0.92
Lawrence	Douglas	4.50	17	6.03	+1.53
Independence	Montgomery	4.36	13	5.02	+0.66
Yates Centre	Woodson	3.38	5	11.68	+8.30
Manhattan	Riley	4.69	25	4.99	+0.30
Maine.					
Gardiner	Kennebec	3.37	47	1.73	-1.64
Maryland.					
Fallston	Harford	3.51	11	3.33	-0.18
Massachusetts.					
Somerset	Bristol	3.78		2.73	-1.41
Worcester	Worcester	3.11	43	2.10	-1.01
Nevada.					
Carson City	Ormsby	0.11		0.00	-0.11
New Jersey.					
South Orange	Essex	4.50	15	4.00	-0.50
New York.					
North Volney	Oswego	3.67	14	4.35	+0.68
Palermo	Oswego	3.30	32	3.85	+0.55
Menand Station	Albany	4.42	3	2.52	-1.90
Ohio.					
Wauseon	Fulton	4.42	13	3.03	-1.39
Pennsylvania.					
Dyberry	Wayne	4.75	14	1.70	-3.05
Texas.					
New Ulm	Austin	4.49	14	3.24	-1.25
Vermont.					
Woodstock	Windsor	3.96	17	3.29	-0.67
Virginia.					
Wytheville	Wythe	3.94	21	1.32	-2.62
Dale Enterprise	Rockingham	4.05	5	2.86	-1.19
West Virginia.					
Helvetia	Randolph	4.66	9	4.41	-0.25

SNOW.

Pike's Peak, Colorado: 2d, 3d, 16th, 17th, 20th to 24th.

With the exception of the above, no reports of the occurrence of snow during the month have been received.

The observer at the above station also reports that there remained, at the close of the month, scattering drifts of unmelted snow on the sides of the mountain.

SLEET.

The occurrence of sleet during the month has been reported from but one station, viz., Pike's Peak, Colorado, on the following dates: 1st, 2d, 4th, 5th, 8th, 10th, 19th to 24th, 27th, 28th, 29th.

HAIL.

Fort Yates, Dakota, 3d: a thunder-storm, with heavy rain and hail, occurred between 4.30 and 5 p. m., moving from north-west to southeast. The hail-stones varied in size from one-fourth to one and one-fourth inches in diameter. Crops were slightly damaged.

Chatham, Columbia county, New York: this place was visited by a severe hail storm at about 6.30 p. m. on the 5th. For ten minutes the hail-stones, measuring from one to three inches in diameter, fell thickly and banked up along fences like winter snow drifts. Roofs were damaged, windows destroyed, trees stripped of their foliage, and small animals killed. The damage to roofs and windows is estimated at \$2,000. Total damage \$50,000.

Canajoharie, Montgomery county, New York, 5th: a severe hail storm visited all parts of the Mohawk valley during the afternoon. Windows were broken and all kinds of crops greatly damaged.

Table of excessive, and greatest monthly precipitation—July, 1885.

Station.	Specialty heavy.	Largest monthly.	Station.	Specialty heavy.	Largest monthly.
Date.	Amt.	Amount.	Date.	Amt.	Amount.
Alabama.			Minnesota.		
Montgomery		7.54	Park Rapids		6.19
Opelika		6.98	Rochester	8	2.56
Auburn		6.92	Mississippi.		
Scottsborough		6.40	Waynesborough	8	2.31
Tusculum	11, 12	2.58	Vicksburg	4, 5	1.95
Gadsden	13	2.00	Missouri.		
Arizona.			Springfield	10, 11, 12	4.57
Prescott	22, 23	2.25	Protem		8.14
Fort Thomas	21, 22	2.21	Greenfield		8.30
Arkansas.			Lamar	2, 3	5.97
Lead Hill	2, 3	3.79	Independence	24, 25	2.95
Mount Ida	21, 22	2.90	Montana.		
Colorado.			Poplar River	15, 16	2.76
Braddock	26	2.15	Nebraska.		
Fort Lyon	10	2.20	Minden		11.79
Connecticut.			Omaha	21, 22	2.20
Hartford	29	2.56	Do	23	2.57
Dakota.			Do	25	2.74
Webster	19	2.21	Ashland		7.64
Delaware.			Weeping Water		7.61
Cape Henlopen	26, 27	2.61	Fairbury		7.56
Florida.			Crete	20, 21, 22	4.00
Manatee	13, 14, 15	6.21	Syracuse		7.25
Limona	13 to 16	7.30	De Witt		6.62
Cedar Keys	14, 15	3.32	Marquette	1, 2	2.32
Fernandina	2	2.00	Do	21, 22	2.19
Jacksonville	16	2.64	De Soto	23, 24	2.20
Tallahassee		6.65	New Hampshire.		
Mayport	12	2.10	Mt. Washington	21, 22	2.02
Georgia.			Wolfeborough	5	2.39
Albany	13	2.05	New Jersey.		
Do	24	3.60	Somerville	6, 7	3.31
Savannah		7.88	New York.		
Way Cross	8	2.00	Oswego	7	2.33
Do	17	2.00	North Carolina.		
Jesup	23, 24, 25	2.58	Lenoir	5, 6	2.00
Millen	24	4.00	Charlotte	13, 14	2.15
Allapaha	16, 17, 18	2.78	Fort Macon	11, 12	4.39
Augusta	11	2.70	Weldon	26, 27	3.52
Thomasville	16	2.20	Ohio.		
Newnan	25, 26	2.19	Jacksonborough	23, 24	3.25
Dalton	5, 6	2.03	Hiram	24	2.31
Illinois.			Garrettsville	24	2.21
Wilton Centre	23	2.19	Pennsylvania.		
Rockford	9	2.10	Grampan Hills	26	2.10
Indiana.			South Carolina.		
Delphi	21	2.50	Saint Matthew's	12, 13	3.44
Guilford [near]	21, 22, 23	3.00	Do	28	2.31
Terre Haute	22, 23, 24	2.50	Texas.		
Lafayette	24	2.49	Clarksville	21	3.57
Vevay	21, 22	2.12	San Antonio	2, 3	3.68
Iowa.			Do	6, 7	2.36
Des Moines		6.55	Comfort	2	2.58
Cedar Rapids	24, 25	2.45	Do	5	2.10
Dubuque		6.35	Austin	6	2.64
Monticello		6.16	Longview Junet	6	2.21
Kansas.			Cuero	6	2.20
Logan	21	2.40	Weimar	6	2.12
Yates Centre	1, 2	6.87	Waco	5, 6	2.07
Do	4, 5	2.43	Dallas	5, 6	2.04
Emporia	1, 2	7.35	Corsicana	6	2.00
Oswego	1, 2	5.81	Huntsville	29	2.00
Salina	1, 2	2.03	Vermont.		
Do	30	2.00	Newport		6.62
Sterling	1	2.25	West Virginia.		
Clay Centre	1, 2	2.21	Helvetia	13, 14	2.56
Dodge City	1	2.10	Wisconsin.		
Do	26, 27	2.19	Embarras	19, 20	3.75
Lawrence.			La Crosse	29, 30	3.78
Independence	10, 11	2.37	Franklin	11	2.98
Sherlock	10, 11	2.32	Madison	21	2.21
Wellington	10, 11	2.14	Prairie du Chien		6.37
W. Leavenworth	25, 26	2.10	Wausau	19, 20	2.26
Louisiana.			Manitowoc	8	2.05
New Orleans	13, 14	1.98			
Shreveport	4, 5, 6	3.11			
Luling	30	3.00			
Monroe	6, 7	2.02			
Maine.					
Cornish	6	2.33			
Massachusetts.					
Princeton	29	2.09			
Michigan.					
Hudson	26	2.10			
Grand Haven	19	2.02			

Oswego, New York, 5th: a severe wind and hail storm occurred about five miles south of this city during the afternoon. It was about a mile and a half wide and extended from the southeast to the northeast. Hail-stones as large as pigeons' eggs fell, causing great damage to growing crops.

Port Jervis, New York: a very heavy hail storm passed over a part of Sussex county, New Jersey, on the 5th, devastating a section, fifteen miles in length and ten miles in width, of grain, grass and vegetables. Hail fell to a depth of one foot. The storm was the severest ever experienced in northern New Jersey.

Sand Beach, Huron county, Michigan: a severe hail storm

occurred over a section of country three or four miles wide by ten miles long during the night of the 9-10th, passing over the lake at Port Hope. Windows were broken and buildings otherwise injured, and crops greatly damaged.

Spokane Falls, Spokane county, Washington Territory, 10th: the severest hail storm ever known in this section occurred at 6 p. m. It lasted fifteen minutes, and hail one inch and a quarter in diameter fell to a depth of about two inches. Great damage resulted to vegetation; windows were broken and other damage done.

Duluth, Minnesota, 12th: between 5 and 6 p. m. several showers of hail fell, the hail-stones being about three-fourths inch in diameter, and fell in sufficient quantities to cover the ground.

Indianapolis, Indiana, 13th: during the thunder-storm on the afternoon of this date a heavy fall of hail, lasting from 6.30 to 6.25 p. m., occurred; the hail-stones were of a variety of irregular shapes, and some of them measured one inch in length by one-half inch in thickness.

Bloomington, McLean county, Illinois, 15th: the vicinity of Saybrook, in this county, was, on the 14th, visited by the severest hail storm known there for years. The storm lasted about fifteen minutes, covering the ground with hail-stones of an unusual size, many of which lay on the ground an hour after the storm abated; great damage was done to the crops.

Moorhead, Minnesota, 15th: during the thunder-storm which occurred at 8.58 p. m. heavy hail fell, lasting eight minutes, the hail-stones being from one-half to one inch in diameter and covering the ground in some places to a depth of two inches or more. Reports show that but little hail fell beyond the limits of this place and Fargo, Dakota. The principal damage done was to gardens, which were in most cases destroyed.

Fort Buford, Dakota, 15th: a thunder-storm, accompanied by a fall of very heavy hail, lasting only about thirty seconds, occurred about 7.30 p. m.

Fort Totten, Dakota, 15th: a very destructive hail storm is reported to have occurred in the vicinity of Niagara, Dakota, during the evening (about 11 p. m.). The path of the storm was about four miles wide and extended from Niagara to Reynolds. The damage to wheat is estimated at \$200,000.

Richardton, Dakota, 15th: a severe wind and hail storm struck Hebron, fourteen miles east of here, destroying houses and crops; at another place, six miles southeast of here, the storm caused total destruction of crops, and wrecked buildings.

Bristol, Sullivan county, Tennessee: a heavy hail storm passed about five miles northeast of this place during the evening of the 19th, doing much damage to crops, and totally ruining some fields of tobacco and corn.

Fort Buford, Dakota, 21st: a thunder-storm, accompanied by hail of very large size, occurred from 4.54 to 5.08 p. m. The hail-stones were as large as goose eggs, breaking all windows of northern exposure and causing considerable damage to the post garden.

Fort Totten, Dakota, 22d: a destructive hail storm occurred about fourteen miles south of this station during the afternoon of this date, causing damage estimated at \$22,000.

Huron, Dakota, 26th: heavy hail is reported to have fallen at points thirteen miles north of here, causing considerable damage to crops.

Fort Bennett, Dakota, 28th: reports from points south of this station state that a heavy rain and destructive hail storm occurred on this date.

La Crosse, Wisconsin, 29th: at 7.35 a. m. a heavy hail storm occurred, lasting fifteen minutes; the size of the hail-stones varied from that of hickory nuts to that of walnuts. Great damage was done to window-glass of southern exposure; the owner of an extensive hot-house within the city limits sustained a loss of \$500. As far as can be ascertained the hail storm covered an area of about ten square miles.

Fort Totten, Dakota, 29th: at 4.45 a. m. scattering hail-stones of large size fell with such force as to split shingles and break window-glass, etc. The hail-stones were from one to one and one-half inches in diameter; the large hail fell for only a

few minutes and was followed by a shower of smaller hail, which continued until 5 a. m. At Minnewaukon, Benson county, nearly all window-glass of northern exposure was broken; the storm travelled in a southeasterly direction and caused great damage to crops. It is reported that at points fifteen miles northward the hail-stones measured nine inches in circumference.

Saint Paul, Minnesota, 30th: a thunder-storm occurred during the afternoon, accompanied by a fall of hail from 6.28 to 6.40; the hail-stones varied in size from one-eighth to one inch in diameter and caused damage by breaking numerous windows in the city.

Other hail storms, of less violence and those of which no particulars were reported, occurred in the various states and territories as follows:

Alabama.—Greensborough, 18th.

Arizona.—San Carlos, 19th; Wilcox, 21st; Prescott, 22d.

Arkansas.—Lead Hill, 5th.

California.—Fort Bidwell, 20th.

Colorado.—Denver, 3d; Pike's Peak, 3d, 13th, 16th, 18th, 21st, 22d; Braddock, 26th, 30th.

Connecticut.—Hartford, 9th; Bethel, 29th.

Dakota.—Fort Yates, 3d, 22d, 23d; Deadwood, 4th; Wentworth, eight miles southeast of station on 4th, 22d; Fort Sully and Webster, 28th.

Idaho.—Cœur d'Alene, 10th.

Illinois.—Chicago, 4th.

Indiana.—Logansport, 13th; Jeffersonville, 30th.

Indian Territory.—Fort Reno, 5th.

Iowa.—West Union, 8th; Muscatine, 8th, 30th; Burlington, 13th; Oskaloosa, 23d; Fort Madison, 30th.

Kansas.—Allison, 4th; Sherlock, 13th; Wyandotte, 14th.

Kentucky.—Louisville, 30th.

Massachusetts.—Princeton, 29th.

Michigan.—Fort Huron, 13th.

Minnesota.—Duluth, 8th; Saint Vincent, 11th; Rochester, 12th; Northfield, 16th, 29th; Moorhead, 18th, 29th.

Montana.—Fort Benton, 16th, 19th.

Nebraska.—Crete, 4th.

New Jersey.—Little Egg Harbor, 2d; Dover, 5th, 29th.

New Mexico.—Lava, 2d; Fort Union, 3d, 4th.

New York.—Oswego, 13th; New York City, 25th.

Ohio.—Hiram and Garrettsville, 9th.

Oregon.—Fort Klamath, 27th.

Texas.—Fort Concho, southeast of station, 5th.

Utah.—Frisco, 15th; Salt Lake City, 24th.

Vermont.—Post Mills, 9th.

Wisconsin.—Madison, 8th, 29th; La Crosse, 8th, 30th.

Wyoming.—Fort Bridger, 1st.

COTTON REGION REPORTS.

The following table shows the means of the maximum and minimum temperatures, and the average rainfall for the several cotton districts, for the month of July, 1885, together with the averages for the same districts for July of the three preceding years:

Temperature and rainfall data for the cotton districts, July, 1885.

Districts.	Rainfall.			Temperature.							
	Average for July of three preceding years.	Average for July, 1885.	Departures.	Maximum.				Minimum.			
				Mean for July of three preceding years.	Mean for July, 1885.	Departures.	Mean for July of three preceding years.	Mean for July, 1885.	Departures.	Extremes for July, 1885.	
										Max.	Min.
New Orleans...	4.41	3.80	— 0.61	93.0	94.2	+ 1.2	73.6	73.7	+ 0.1	105	64
Savannah.....	5.00	5.47	+ 0.47	92.8	93.0	+ 0.2	71.7	72.2	+ 0.5	103	58
Charleston.....	6.28	6.85	+ 0.57	92.4	91.0	— 1.4	70.7	70.2	— 0.5	101	51
Atlanta.....	3.69	3.99	+ 0.30	90.4	91.3	+ 0.9	68.7	69.0	+ 0.3	102	46
Wilmington.....	4.69	4.35	— 0.34	91.1	90.9	— 0.2	68.9	68.3	— 0.6	102	40
Memphis.....	4.77	2.88	— 1.89	89.9	91.5	+ 1.6	68.2	70.4	+ 2.2	106	50
Galveston.....	2.04	2.58	+ 0.54	95.2	94.0	— 1.2	73.0	70.9	— 2.1	105	51
Vicksburg.....	5.88	4.89	— 0.99	91.9	93.1	+ 1.2	71.6	69.7	— 1.9	99	47
Montgomery.....	4.71	4.54	— 0.17	92.0	92.2	+ 0.2	68.7	70.0	+ 1.3	105	50
Augusta.....	3.51	3.71	+ 0.20	92.3	93.7	+ 1.4	70.6	69.8	— 0.8	104	53
Little Rock.....	2.75	1.95	— 0.80	92.7	94.0	+ 1.3	67.1	70.4	+ 3.3	105	53
Mobile.....	3.52	4.92	+ 1.40	93.9	93.9	— 0.1	70.6	71.1	+ 0.5	106	55